

Name: **Dr. Satish S Bhande**
Designation: **Assistant Professor**
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Academic Qualification:

Ph.D [2000 – 2004]

Title: “Contraceptive evaluation and toxicological screening of the isolated compounds of the seeds of *Carica papaya* in langur monkey – A preclinical study”

Department of Zoology, University of Rajasthan, Jaipur, Rajasthan, India

Master of Science [1998-2000]

In Zoology with specialization in Mammalian Reproductive Physiology

Department of Zoology, RTM Nagpur University, Nagpur, Maharashtra, India

Bachelor of Science [1995-1998]

Group: Chemistry, Zoology and Microbiology

Dharampeth M. P. Deo Memorial Science College, Nagpur University, Nagpur, Maharashtra, India

Research Experience:

Junior Research Fellow and Senior Research Fellow [October 2000 to August 2004]

Department of Zoology, University of Rajasthan, Jaipur, India

Project 1:

Investigations on the antifertility effect of *Carica papaya* seeds in male langurs *Presbytis entellus entellus*.

Funded by Ministry of Health & Family Welfare (MHFW), Government of India, New Delhi

Project 2:

Preclinical investigations on the molecular mechanism of testicular/post testicular contraceptive effects of the seed products of *Carica papaya*.

Funded by Indian Council of Medical Research (ICMR), Government of India, New Delhi

Project 3:

Intravasal contraception with styrene maleic anhydride (SMA) and its non-invasive reversal: a long term sequelae.

Funded by Indian Council of Medical Research (ICMR), Government of India, New Delhi

Postdoctoral Research Experience:

Postdoctoral Research Fellow [June 2005 to May 2006]

Dept. of Ob/Gyn, Health Science Centre, West Virginia University, WV, USA

Project 4:

Proteomic Identification of human sperm antigens recognized by antibodies in sera from immuno-infertile and fertile women.

Funded by National Institute of Health (NIH), USA

Project 5:

Development of contraceptive vaccine using cocktail of synthetic peptides conjugated with different carrier proteins and evaluation of its effect on fertility of a female mice.

Funded by National Institute of Health (NIH), USA

Research Associate [August 2007 to July 2009]

Center for Cellular and Molecular Biology (CCMB), Hyderabad, India

Project 6:

Epididymal maturation in Hamster spermatozoa: A proteomics approach

Funded by CZA (Central Zoo Authority of India)

Teaching Experience:

2006-2007: Worked as a Contributory Teacher (Clock hour basis) to MSc. and M.Phil at Department of Zoology, RTM Nagpur University, Nagpur.

Since 2009: Assistant Professor in Zoology, PSGVPM's ASC College, Shahada, Dist. Nandurbar

Areas of research interest:

Reproductive biology and Animal behavior

PG Teacher and Ph.D. guide recognition by NMU, Jalgaon

Subject	Letter/Ref. No.	Mode	Validity	University
Zoology	NMU/11/PGR/Zoo/2309/2013	By Paper	-	NMU, Jalgaon
	NMU/11/PGR/Zoo/872/2015	By Research	-	NMU, Jalgaon

Publications of Research Papers = 13

Sl No	Title of paper	Authors	Name of Scientific Journal	Vol. pp Year	Impact Factor
1.	Effect of aqueous extract of <i>Amaranthus spinosus</i> on hematological parameters of Wistar albino rats	Bhande Satish S and Wasu Yogesh H	Journal of Experimental Biology and Agricultural Sciences	2016, 4 (1): 116-120	
2.	Effect of aqueous extract of <i>Amaranthus spinosus</i> on biochemical parameters of Wistar albino rats	Bhande Satish S and Wasu Yogesh H	Life Sciences Leaflets	2016, 75:1-9	1.22
3.	Role of glycerol-3-phosphate dehydrogenase 2 in mouse sperm capacitation.	Kota V, Rai P, Weitzel JM, Middendorff R, Bhande SS , Shivaji S.	Mol Reprod Dev.	2010 Sep;77(9):773-83. PMID: 20602492	2. 812
4.	Glucose-regulated protein precursor (GRP78) and tumor rejection antigen (GP96) are unique to hamster caput epididymal spermatozoa.	Kameshwari DB, Bhande S , Sundaram CS, Kota V, Siva AB, Shivaji S.	Asian J Androl.	2010 May; 12(3):344-55. Epub 2010 Apr 19. PMID: 20400973	2.530
5.	Molecular identities of human sperm proteins reactive with antibodies in sera of immunoinfertile women.	Bhande S , Naz RK.	Mol Reprod Dev.	2007 Mar; 74(3):332-40. PMID: 16998854	2. 812
6.	Safety evaluation of long-term vas occlusion with	Manivannan B, Bhande SS ,	Asian J Androl.	2005 Jun; 7(2):195-204.	2.530

	styrene maleic anhydride and its non-invasive reversal on accessory reproductive organs in langurs.	Panneerdoss S, Sriram S, Lohiya NK.		PMID: 15897977	
7.	Perspectives of contraceptive choices for men.	Lohiya NK, Manivannan B, Bhande SS , Panneerdoss S, Garg S.	Indian J Exp Biol.	2005 Nov; 43(11):1042-7. Review PMID: 16313067	
8.	Efficacy trial on the purified compounds of the seeds of Carica papaya for male contraception in albino rat.	Lohiya NK, Mishra PK, Pathak N, Manivannan B, Bhande SS , Panneerdoss S, Sriram S.	Reprod Toxicol.	2005 May-Jun; 20(1):135-48. PMID: 15808797	
9.	Preclinical evaluation for noninvasive reversal following long-term vas occlusion with styrene maleic anhydride in langur monkeys.	Lohiya NK, Manivannan B, Mishra PK, Sriram S, Bhande SS , Panneerdoss S.	Contraception	2005 Mar; 71(3):214-26. PMID: 15722073	
10.	Ultrastructural changes in the testis and epididymis of rats following treatment with the benzene chromatographic fraction of the chloroform extract of the seeds of Carica papaya.	Manivannan B, Mishra PK, Pathak N, Sriram S, Bhande SS , Panneerdoss S, Lohiya NK.	Phytother Res.	2004 Apr; 18(4):285-9. PMID: 15162362	
11.	Status of spermatogenesis and sperm parameters in langur monkeys following long-term vas occlusion with styrene maleic anhydride.	Mishra PK, Manivannan B, Pathak N, Sriram S, Bhande SS , Panneerdoss S, Lohiya NK.	J Androl.	2003 Jul-Aug; 24(4):501-9. PMID: 12826690	
12.	Chloroform extract of Carica papaya seeds induces long-term reversible azoospermia in langur monkey.	Lohiya NK, Manivannan B, Mishra PK, Pathak N, Sriram S, Bhande SS , Panneerdoss S.	Asian J Androl.	2002 Mar; 4(1):17-26. PMID: 11907624.	
13.	Current advances in male contraception. In: Reproductive Biology and Comparative Endocrinology. M. Akbarsha (ed.).	Manivannan, P. K. Mishra, N. Pathak, S. Sriram, S. S. Bhande , S. Panneerdoss and N. K. Lohiya	SRBCE, Chennai & BU, Tiruchirappali (India)	2002: pp 23-24;	

Presentation in National & International Conferences

Sr. No.	Title of Conference / Symposium / Workshop	Level	Place	Period
1	International Congress on “Bio-immunoregulatory mechanisms associated with Reproductive Organs: Relevance in Fertility and in sexually transmitted infections”	International	National Institute of Immunology, New Delhi.	February 9-13, 2009
2	International Conference on ‘Germ cell development-function and ISSRF 19th Annual Meeting”	International	Indian Institute of Science, Bangalore.	January 22-24, 2009
3	Symposium - [Recent trends in Environmental Protection: Concerns and Challenges (RTEPC)]	National	Songir, MS, India	5 Oct, 2015
4	Conference - [Advances in Bioscience and Environmental science: Present and Future (ABES-2015)]	National	Chalisgaon, MS, India	22-23 Sept, 2015

Conferences /Seminars/Workshop Organized

Sr. No.	Title of Conference / Symposium / Workshop	Level	Place	Period
1	Conference – [Animal Biodiversity and Recent Trends in Zoological Research]	National	Shahada	6-7 December, 2013

Conferences /Seminars/Workshop attended/participated

Sr. No.	Title of Conference / Symposium / Workshop	Level	Place	Period
1	XIX National Symposium of the Society for Reproductive Biology and Comparative Endocrinology & UGC- DSA Conference	National	M.S. University of Baroda, Vadodara, Gujarat	2001
2	National conference on recent trends in reproductive health	National	Department of Zoology, University of Rajasthan, Jaipur.	February 6-8, 2003
3	Scientific meet on “Current trends in proteomics and brain storming	International	Centre for Cellular and	February 17-18, 2008

	discussion on plasma proteomics”		Molecular Biology, Hyderabad.	
4	Symposium on “Recent trends in reproductive health research and ISSRF 18 th Annual Meeting”	International	Centre for Cellular and Molecular Biology, 5Hyderabad.	February 20-22, 2008
5	Workshop – [Practical workshop for TYBSc zoology]	University	Sakri	23 December, 2009
6	Workshop – [Practical workshop for MSc I (Sem I and II) Zoology]	University	jalgaon	4 December, 2010
7	Symposium – [Bio-inoculants for sustainable agriculture (BSA-2010)]	National	Shahada	16 February, 2010
8	Symposium – [Ganghi thought: The only solution for corruption and terrorism]	National	Shahada	23-24 December, 2011
9	Workshop – [Mutual learning in practical workshop for FYBSc Zoology]	University	Sakri	21 July, 2012
10	Workshop – [Preparation of syllabus for the subject Zoology at SYBSc level]	University	Pachora	12 January, 2013
11	Workshop – [One day syllabus framing workshop of MSc II (Sem. III & IV) Zoology]	University	Shahada	5 December, 2014
12	Workshop – [TYBSc Zoology practical workshop]	University	Dhule	22 August, 2014
13	Symposium – [Chromatography: An effective tool for herbal drug standardization]	National	shahada	12 April, 2014
14	Symposium – [Role of Pharma Clinic i Health Care Profession of Indian Rural Area]	National	Shahada	17-1 October, 2014
15	Conference – [Recent Trends in Environmental Sciences]	National	Dhule	19-20 January, 2014
16	Conference – [Recent Emerging Trends in Plant Sciences (REPTS - 2013)]	National	Shahada	6-7 September, 2015
17	Symposium – [Recent trends in Enviornmental Protection: Concerns and Challenges (RTEPC)]	National	Songir	5 Oct, 2015
18	Conference – [Advances in Bioscience and Enviornmental	National	Chalisingaon	22-23 September,

	science: Present and Future (ABES-2015)]			2015
19	Seminar- National Level Seminar on Recent Advances in Novel Drug Carrier System	NMU	PSGVPM's College of Pharmacy Shahada	5 th October 2016
20	Workshop- One Day Workshop on Digital University College Software (E-SUVIDHA).	NMU	R.C. Patel Arts, Comm. & Science College Shirpur.	18 th June 2016
21	Workshop- One Day Syllabus Framing Workshop of T.Y. B.Sc. Zoology.	NMU	JTE's Zulal Bhiljirao Patil College, Dhule.	23 rd February 2017
22	Workshop – FY BSc. Zoology (Theory and Practical)	NMU	SSMM ASC college, Pachora, Dist. Jalgaon	3 rd August, 2018

R & D Projects (Minor/Major Research Project)

Funding agency	Title of the project	Duration (Year)	Amount (. Lakhs)	Status
University Grant Commission	Scientific evaluation of antifertility effect of Amaranthus spinosus in albino rat	2 yrs.	Rs. 1,75,000	Completed

Professional Training:

Sr. No.	Name of Course	Venue	From	To
1	104 th Orientation Programme	DAVV, Indore	05 th June, 2012	02, nd July, 2012
2	Refresher Course	GJUS & T, Hisar	18 th May, 2017	07 th June, 2017

Member of Scientific Communities:

1. Life member of Society for Reproductive Biology and Comparative Endocrinology (SRBCE), Chennai, India.
2. Life member of Indian Society for the Study of Reproduction and Fertility (ISSRF), Mumbai, India.